

ROCKY FLATS PLANT
NATIONAL ENVIRONMENTAL POLICY ACT DOCUMENTATION
ENVIRONMENTAL CHECKLIST

1. Date: June 15, 1990
2. Activity/Project Name: OU 2 Surface Water IRA Field
Treatability Test
3. Authorization or EJO #: *EC-017-90*
4. Project PA: G.Anderson
5. Initiating Line Manager: T.Greengard
6. Project Activity Description (Include justification, location with figures and maps if appropriate, schedule, cost, etc. Use additional pages if necessary):

Based on the Interim Measures/Interim Remedial Action (IM/IRA) for Operable Unit # 2, a field treatability test has to be performed on surface water.

A successful surface water treatment has to meet all the Rocky Flats Plant standards. The goal of this field treatability test is to demonstrate appropriate treatment process developed in IRAP and bench/vendor treatability study tests for reduction of organic and radioactive contamination. This test study will model in field scale treatability units the process(es) which later will be implemented as the IRA at Operable Unit #2 for surface water treatment.

Optimal treatment process for the surface water and waste stream(s) generated by the preferred surface water treatment technology determined during the bench/vendor treatability study will be tested.

Treatability study (field scale) work plan will be prepared before testing begins. The amount of water which will be removed from the site will be identified in the work plan.* All the water samples will be collected from the existing surface water sampling station # 61 at Walnut Creek upstream of pond B1 (this collection does not require disturbance of the land) and pumped through the piping system to the treatment plant (located in the trailer). Water after the treatment will be returned approximately two feet below the extraction point into the So. Walnut Creek.

* Estimated not to exceed 50-60 gallons per minute.

"REVIEWED FOR CLASSIFICATION"
By *SC. J. Dech*
Date *6/20/90*

A-DU02-000940

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All the tests required will be identified in the work plan and performed in trailer-mounted treatment modules installed near SW-61 monitoring point. The tests should generate far less than 100 kg of solid wastes containing heavy metals. A daily log will be maintained that records the weights of samples or residues. Hazardous wastes generated during testing will be stored in 90-day satellite stations and then sent to a RCRA - permitted storage area for eventual off-site disposal in a RCRA - approved facility.

Checklist*
YES NO UNKNOWN

- | | |
|---|---|
| 7. Is the project/activity a budget line item? | X |
| 8. Will the project/activity require or potentially require an application for permit or permit modification under: | |
| a. the Clean Air Act | X |
| b. the Clean Water Act | X |
| c. RCRA? | X |
| 9. Does this project involve remedial action under CERCLA? | X |
| 10. Is the project /activity | |
| a. new or | X |
| b. modification, rather than a direct replacement? | X |
| (New or modified activities will generally have more impact than a direct replacement.) | |
| 11. Will the project/activity result in, or have the potential to result in, long term changes to the environment, (e.g., constructing a building, erecting above-ground power lines, a development of new waste ponds or landfills)? | X |

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Checklist*

YES NO UNKNOWN

12. Will the project/activity result in changes and/or disturbances of the following existing factors:

a. noise level		X
b. air emissions		X
c. liquid effluent	X	
d. solid waste	X	
e. radioactive waste (including contaminated soil)		X
f. (chemically) hazardous waste	X	
g. mixed waste(radioactive & hazardous)	X	
h. chemical or petroleum product storage	X	
i. water use(withdrawal of ground water or diversion or withdrawal of surface water)	X**	
j. drinking water system		X
k. sewage disposal system		X
l. soil movement outside facility fences		X
m. site clearing, excavation, or other alterations		X

EC Prepared by: O.Erlich

Date: June 15, 1990

Organization: ER

Bldg: T130B Extension:5959

* Clarification of any of these answers should be provided in the Project/Activity Description.

** Water consumption is negligible. Over 90 % of water withdrawn will be returned to the stream.